FY2001 Plan for InfoWeb/TORPEDO Development

InfoWeb

Structural Changes

In FY2001, the Library will release a new version of InfoWeb to streamline management of its web pages and provide end users with a more intuitive search interface. A team consisting of library staff assisted by a specialist in human-computer interaction from Code 5510 has been planning the new system since March 2000. In deploying the redesign, Library Web developers are using Allaire's ColdFusion, a Rapid Application Development (RAD) tool. ColdFusion allows the Library to build each web page from a categorized database of links, providing customized content for NRL researchers and scientists, as well as for any external users with whom the Library makes arrangements. This is part of an overall strategy to make the web site easier to navigate and more dynamic in its display of content.

A key development planned for the coming year is the integration of a **Master Journal Database**, currently under development, with InfoWeb. A distinct collection of information, this database will be able to interface with all of the Library's major services (TORPEDO *Ultra*, the Library Catalog, Contents-to-Go, Links to Journals on Publisher Web Sites, etc.) and synchronize these repositories of information. By creating a standards-based (SQL) database, coupled with Allaire's ColdFusion RAD software, the Library will be positioned to manage its electronic holdings more accurately and effectively, whether these are mounted locally or licensed for access from a publisher's Web site or through a journal aggregator or consortium. The journal database will consolidate information from 5 separately maintained lists, reducing redundant effort and chance of error. When completed, the web front end will allow authorized users, both NRL and external clients, to view customized current print journal holdings, archival print holdings, electronic holdings, Contents-to-Go titles, and titles available through TORPEDO *Ultra*.

New Content

Journals

Access to the full content of journals, which grew from 300 to 1,450 during FY00, is expected to continue to increase during FY01.

The Library is working with the Alliance for Innovation in Science and Technology (formerly the Library Services Alliance of New Mexico) to expand its agreement with Kluwer to include journals published by **Plenum**, the **Consultants Bureau**, and **Maik Nauka**.

Working with the National Research Library Alliance and the Consortium of Naval Libraries, the Library is in the process of licensing **Wiley** journals and increasing the number of **Elsevier** and **American Chemical Society** titles available to NRL and ONR researchers.

Databases

In response to many requests from both ONR and NRL researchers with information needs in the areas of information science, linguistics, and psychology, the Library will add **Social Science Citation Index** (SSCI) to its InfoWeb offerings in FY01. SSCI covers 1,730 journals and adds approximately 2,700 new articles and 54,000 new cited references per week. The database covers the years 1956- to-present. It will be mounted locally so that it can be searched in combination with Science Citation Index Expanded, as well as independently, using the same Web of Science interface that NRL users are familiar with.

The Library will also add a new Web of Science database covering conference proceedings in science and technology available via InfoWeb. Initially to be made available from the ISI Website, the database will be locally loaded and integrated with Science Citation Index Expanded and Social Science Citation Index as soon as the Intranet version is released. **Science & Technology Proceedings** covers conferences in such NRL interest areas as biochemistry, molecular biology, biotechnology, engineering, computer science, chemistry, and physics. The database indexes about 10,000 conferences a year, giving users access to 1.9 million papers from conference literature published since 1990.

Working with the Consortium of Naval Libraries, the Library will make **METADEX** and other materials science databases through InfoWeb. This suite of databases from Cambridge Scientific Abstracts, covers ferrous and non-ferrous metals, polymers, ceramics, plastics and composite materials. The database vendor has agreed to customize the database for NRL by building links to licensed journal content in TORPEDO *Ultra* and on publisher sites. **AIAA's Aerospace Database** is also under consideration.

To assist NRL researchers in selecting journals in which to publish, the Library has licensed Web access to the **Journal Citation Reports** (JCR) Science Edition published by the Institute of Scientific Information (ISI). The ISI Journal Citation Reports on the Web offers quantifiable statistical data that provides a systematic, objective way to determine the relative importance of journals within specific subject categories. For example, it can be used to identify those journals that are most highly cited or those journals that are cited most rapidly, i.e., in the shortest length of time. JCR can also help authors seeking an alternative to publication in high cost journals that the Library cannot afford by allowing them to identify other journals in their field of interest with equivalent or even higher standing.

Other Content

Reference Materials. InfoWeb was being expanded during the past year to include reference materials, such as the Oxford English Dictionary and Wiley's encyclopedia of Electrical and Electronics Engineering. Reference materials under consideration for FY01 include Annual Reviews Online (Astronomy & Astrophysics, Biophysics & Biomolecular Structure, Earth & Planetary Sciences, Fluid Mechanics, Materials Science, Nuclear & Particle Science, and Physical Chemistry), the Encyclopedia of Astronomy & Astrophysics, Ullmann's Encyclopedia of Industrial Chemistry, and the Kirk-Othmer Encyclopedia of Chemical Technology.

Laboratory Notebooks. In a cooperative project with Code 5260, the Library is cataloging historically

significant Laboratory Notebooks in WebCat and linking records to commercially digitized copies stored in TORPEDO *Ultra*. Since both the WebCat catalog and selected portions of TORPEDO *Ultra* are openly available, NRL Laboratory Notebooks of interest to historians, scientists, and archivists, will be retrievable through the Internet. The first set of 30 notebooks covers pioneering work in the field of radar.

Ebooks. The Library is spearheading an effort through the Consortium of Naval Libraries to bring thousands of IT-related eBooks to InfoWeb. Ebooks will be searchable in the WebCat Library Catalog and linked to full content. The Library will eventually make them searchable through TORPEDO *Ultra* as well.

Enhancements to Existing Content

In FY01, **Science Citation Index Expanded** (SCIEx) will be extended back in time to 1945, giving NRL researchers the opportunity to search 23 years of publication never before available online through any database. In addition to being able to search for articles published from 1945 to the present, researchers can search for cited articles, navigate between references and citations, look for citing articles, and display full article content when available either through TORPEDO *Ultra* or from a cooperating publisher's Web site. A capability for requesting copies of articles as part of an online search will be implemented, giving users access to the contents of journals not available in electronic format. Requested articles will be photocopied from the collection, obtained from other libraries on interlibrary loan, or purchased from a document provider; any costs incurred will be passed back to the requester.

INSPEC, one of the most heavily used InfoWeb databases will be linked to journal full text. Through the use of a linking technology supported by the vendor (SilverPlatter), the Library will be able to link INSPEC records to articles and conference proceedings in TORPEDO *Ultra*, giving users the capability of displaying full content as part of a database search. SilverPlatter has announced plans for a complete redesign of its current interface during the coming year.

The **NRL Publications Database**, which has been searchable through the library catalog, is being migrated to new software designed to streamline the process of creating a bibliographic database. In FY01, the redesigned NRL Publications Database will be available directly from InfoWeb. It will include an easy-to-use form to enable researchers to submit information about new or omitted journal articles or published conference papers. The core database, source data for the printed annual NRL Bibliography, starts in 1988. It will be extended back in time by entering data from reprints that have been collected by the Library since the 1920s. The database is updated by downloading information about NRL publications from the Science Citation Index Expanded and new Science and Technology Proceedings databases. Information provided to the Library in the form of reprints or division lists will be verified and added. The NRL Publications Database will be searchable by author, title, journal, and publication year, with many records linked to full article PDFs, generated by scanning available reprints.

The Library also plans to enhance its **Contents-to-Go** journal table of contents (TOC) delivery service. The Library also plans to replace vendor-provided TOC for all journals in TORPEDO *Ultra* with system-generated TOC, which will be e-mailed to users as new journal issues are added to TORPEDO *Ultra*. Each article listed in the TORPEDO *Ultra* TOC will be linked to full content, enabling users to display and print any article in which they are interested. TOC data for journals not in TORPEDO *Ultra* will continue to be provided by a vendor. Library staff will continue to honor requests for photocopies of articles from journals not available in electronic format.

Among FY01 **WebCat** enhancements will be reduction or complete elimination of "down-time" accomplished by the addition of a development server and a "ping-pong" capability between the development server and its twin production server. The imposition of authority control for personal and institutional authors will be implemented to improve the precision of catalog searches and the ability to locate all publications by a specific personal or corporate author through a built-in hyperlink capability.

TORPEDO *Ultra*

TORPEDO *Ultra* hosts digital content that is generated locally (e.g., NRL reports) or licensed from publishers (e.g., journals). It provides NRL researchers with a single interface for searching digital content from many sources. Local loading facilitates rapid retrieval and display, supports integration with other library databases, and permits customization to meet NRL needs. Perhaps most importantly, information that is loaded in TORPEDO *Ultra* is licensed for permanent retention, and unlike many Web-based journals that are currently available through InfoWeb links, will be available to NRL and ONR users in perpetuity.

Structural Changes

Upon the launch of TORPEDO *Ultra* in January 2000, Library staff immediately began work on developing a new version of the system that required fundamental design changes in system configuration and processes. The goals of this effort, expected to be released as TORPEDO *Ultra* Version II during FY01, are to: Improve search response time, facilitate the addition of new journals, enhance Content-to-Go alerts, lay the ground work for proper rendering of non-ASCII characters, streamline the user interface, enable the full-text retrieval and display of cited and citing articles, and provide enhanced search and retrieval capabilities.

The most pressing of these issues is **system responsiveness**, which in the present system is highly variable, and depends upon the collection or document set that an individual user elects to search. Searching technical reports or other subsets of materials that are organized into "libraries" queries a single index and is therefore relatively fast. Searching across 'libraries" or searching large number of journals (each of which is structured as a separate "library") requires that multiple indexes be queried; the more indexes, the longer the search. The decision was therefore made to create one large "library" with a

single master index as the underlying structure for TORPEDO *Ultra* Version II. Users will still able to restrict their search by selecting particular journals or groups of journals; the specified sources will automatically be incorporated into the search strategy, a process that is transparent to the end user.

To facilitate the **addition of new journals** and other materials, the import and conversion process is being completely redesigned for Version II.   Instead of writing a separate program for each new type of material or source, a generic import and conversion process has been developed to integrate and dynamically manage the entire workflow: scanning, conversion to Image+Text PDF, addition of thumbnails, optimization, and filing. Content can be dropped in at any point in the process. When bibliographic data is received, a record is created for each article and converted to XML for storage and later integration into the TORPEDO *Ultra* system. Once the PDF for that article becomes available (either by processing or by downloading), the record is marked as complete and then filed into the system. This improved filing process provides status information for every piece of TORPEDO *Ultra* content and supports the implementation of future services, including email alerts about the latest issue of a specific journal or the email delivery of complete tables of contents with embedded full text links to each article.

Version II automates the currently manual process of **assigning journals to subject areas** representing NRL research interests. For the existing system, the Library has defined nine broad fields in which NRL is active, then subdivided large areas, such as chemistry and physics, into appropriate sub-fields. Each journal is manually assigned to one or more fields or sub-fields by a reference librarian. With the anticipated addition of hundreds of new journals, some in areas not necessarily core to NRL, new subject categories have been created and the process of making journal subject assignments has been partially automated.   The Library is capitalizing on the Subject Categories developed by ISI for use in its annual *Journal Citation Report*. Underlying the ISI subject breakouts are one or more two-letter Category Codes assigned to each journal. A translation table converts the hundreds of ISI Category Codes to the appropriate NRL subject areas. As new journals are added to Version II, they will be automatically checked against an ISI file of more than 5,000 journals and associated Category Codes, and assigned to the appropriate NRL subject areas. For journals that may not be covered by ISI, assignments will continue to be made by reference staff.

To support the **rendering of non-ASCII characters**, such as the Greek letters, symbols, and equations that characterize scientific articles, Version II bibliographic records are being stored in an XML format defined with a customized DTD (Document Type Definition). As browsers incorporate more extensive support for Unicode and MathML (Mathematical Markup Language), this behind-the-scenes implementation of a DTD-defined XML will enable TORPEDO *Ultra* to automatically take advantage of such support. In the meantime, MathML is being converted to HTML (HyperText Markup Language) for display with current browsers.

TORPEDO *Ultra* was released in January 2000 with two different interfaces. The first interface to be developed proved to be somewhat slow and at times confusing; the alternative interface gained speed by replacing JavaScript and Perl with HTML code and clarified user options by providing more detailed

instructions and utilizing frames as a navigational aid.   The intent was for users to display three vertical frames simultaneously, which has subsequently proved to be a problem on smaller monitors. The Version II **universal interface** is based upon Perl and ColdFusion and combines the best features of the existing two interfaces. Data are dynamically retrieved from the Master Journal Database to create and display lists of journals, volumes, issues, etc. Searching is still based upon Excalibur RetrievalWare, although instead of using the RetrievalWare Toolkit for programming, Version II is being developed using the RetrievalWare API (Application Program Interface). By integrating API calls into Perl functions, the Library expects to be able to achieve a degree of customization and integration of browse and search functions not otherwise possible.

One of the capabilities that is lacking in the current version of TORPEDO *Ultra* is **linking to the full text of cited references** in journal articles. As more and more publishers add this capability for their own publications, and through CrossRef link to references in one another's journals, the need to incorporate reference linking has gained urgency. Version II will provide this capability by linking TORPEDO *Ultra* users directly into the locally-mounted Science Citation Index Expanded database. This linking capability will be available for all TORPEDO *Ultra* articles published in journals that are indexed in Science Citation Index Expanded, which currently covers more than 98 percent of locally hosted journals. Links will allow the user to view bibliographic records for both citing and cited articles, and to link from the Science Citation Index Expanded record to the corresponding full text either in TORPEDO *Ultra* or on publisher Web sites covered by ISI and NRL agreements.

New retrieval capabilities supported by Version II will include a "more like this" search enabling users to find other articles in TORPEDO *Ultra* that are similar to one they like, and an on-the-fly author search that allows users, in either browse mode or from a search hit list, to perform an author name search within TORPEDO *Ultra* or in Science Citation Index Expanded and display full content where it is available. The addition of a technical thesaurus is expected to permit users to define terms for concept searching with greater precision than the standard English-language dictionary currently available as a RetrievalWare default. The Library has licensed the IEE INSPEC thesaurus for this purpose**.**

New Content

<u>**Journals**</u>

The following new journals have been licensed for local hosting. While all can be loaded into TORPEDO *Ultra*, the Library is considering adding both Academic Press and Kluwer titles selectively, choosing those titles that appear to be of interest to the NRL and ONR community. Those titles that were not available through TORPEDO *Ultra*, e.g., journals in the fields of economics, history, law, philosophy, and politics, would continue to be available from the publishers' sites. Journals will be added from one publisher at a time, starting with the IOP.

· **Academic Press** (178 titles) - See Appendix A.

· **Institute of Physics** (30 titles) - See Appendix B.
· **Kluwer** (441 titles) - See Appendix C
· **IEEE** (122 titles) - See Appendix D
· **IEE** (26 titles) - See Appendix E

The **IEEE** license also authorizes local loading of all IEEE and IEE conference proceedings, starting with 1988, and IEEE standards.

As part of a cooperative project with the National Institute of Standards and Technology (NIST), the *NIST Journal of Research* will be digitized and added to TORPEDO *Ultra*.

Discussions are underway with the **American Physical Society**, which no longer permits local hosting of current APS journals, to allow the Library to *index* information locally so that it would be browsable and searchable with other TORPEDO *Ultra* journals. The journal content itself would reside on the APS site and be accessible through a hyperlink that connects to an APS "wrapper" page consisting of an enhanced bibliographic record linked to full text. The Library will develop and test the mechanism for such distributed access to journals during FY2000. Under the APS model, at the conclusion of each year, the previous year's data could be loaded in TORPEDO *Ultra*.

Discussions are underway with the **Optical Society of America** (OSA) authorizing NRL to mount four journals locally in exchange for assistance to OSA in digitizing journal backfiles. The journals under consideration are Journal of the Optical Society A, Journal of the Optical Society B, Optics Letters, and Applied Optics.

By working with members of the National Research Library Alliance and the Consortium of Naval Libraries, the Library is seeking to enter into a consortial agreement with **Elsevier Science** with the potential for doubling the number of journals available through TORPEDO *Ultra*.

Other Content

The TORPEDO *Ultra* archive of NRL-authored journal articles, derived from scanned reprints, is expected to grow significantly during FY2000 and beyond. In addition to scanning unbound reprints for the period 1993-to-date, work is underway to convert bound reprints, going back to 1927, to a digital format. Because machine-readable bibliographic records for this older material do not exist, the conversion project entails data entry as well as scanning and OCRing. As the SCIEx database is extended back in time, the need for data entry will be reduced because the Library has licensed the use of SCIEx records in creating an internal database of NRL publications.

In addition to adding IEEE and IEE journals, more than 450 conference proceedings will be added to TOPREDO *Ultra*. The full content of all IEEE standards will also be available through TORPEDO *Ultra*.

Laurie E. Stackpole
11 October 00

Appendix A. Academic Press Titles Licensed for TORPEDO *Ultra*

Advances in Applied Mathematics
Advances in Mathematics
Anaerobe
Analytical Biochemistry
Animal Behaviour
Annals of Botany
Annals of Physics
Appetite
Applied and Computational Harmonic Analysis
Archives of Biochemistry and Biophysics
Atomic Data and Nuclear Data Tables
Biochemical and Biophysical Research Communications
Biological Control
Biological Journal of the Linnean Society
Biologicals
Bioorganic Chemistry
Blood Cells, Molecules and Diseases
Botanical Journal of the Linnean Society
Brain and Cognition
Brain and Language
Brain, Behavior, and Immunity
British Accounting Review
British Journal of Plastic Surgery
Bulletin of Mathematical Biology
Cell Biology International
Cellular Immunology
Cladistics
Clinical Immunology
Cognitive Psychology
Computer Speech and Language
Computer Vision and Image Understanding
Computers and Biomedical Research
Consciousness and Cognition
Contemporary Educational Psychology
Cretaceous Research
Critical Perspectives on Accounting
Cryobiology
Cytokine
Developmental Biology

Developmental Review
Digital Signal Processing: A Review Journal
Ecotoxicology and Environmental Safety
Environmental Research
Epilepsy and Behavior
Estuarine, Coastal and Shelf Science
European Journal of Combinatorics
Experimental and Molecular Pathology
Experimental Cell Research
Experimental Eye Research
Experimental Neurology
Experimental Parasitology
Explorations in Economic History
Finite Fields and Their Applications
Fish and Shellfish Immunology
Food Microbiology
Food Science and Technology/LWT
Frontiers in Neuroendocrinology
Fungal Genetics and Biology
Games and Economic Behavior
General and Comparative Endocrinology
Genomics
Graphical Models and Image Processing
Gynecologic Oncology
Historia Mathematica
Hormones and Behavior
Icarus
ICES Journal of Marine Science
Information and Computation
International Information and Library Review
International Journal of Human-Computer Studies
International Journal of Nautical Archaeology
International Journal of the Sociology of Law
Journal of Adolescence
Journal of Agricultural Engineering Research
Journal of Algebra
Journal of Algorithms
Journal of Anthropological Archaeology
Journal of Approximation Theory
Journal of Archaeological Science
Journal of Arid Environments

Journal of Autoimmunity
Journal of Catalysis
Journal of Cereal Science
Journal of Chemical Thermodynamics
Journal of Colloid and Interface Science
Journal of Combinatorial Theory-Series A
Journal of Combinatorial Theory-Series B
Journal of Comparative Economics
Journal of Complexity
Journal of Computational Physics
Journal of Computer and System Sciences
Journal of Differential Equations
Journal of Economic Theory
Journal of Environmental Economics and Management
Journal of Environmental Management
Journal of Environmental Psychology
Journal of Experimental Child Psychology
Journal of Experimental Social Psychology
Journal of Financial Intermediation
Journal of Fish Biology
Journal of Fluids and Structures
Journal of Food Composition and Analysis
Journal of Functional Analysis
Journal of Historical Geography
Journal of Housing Economics
Journal of Human Evolution
Journal of Invertebrate Pathology
Journal of Magnetic Resonance
Journal of Mathematical Analysis and Applications
Journal of Mathematical Psychology
Journal of Memory and Language
Journal of Molecular and Cellular Cardiology
Journal of Molecular Biology
Journal of Molecular Spectroscopy
Journal of Multivariate Analysis
Journal of Network and Computer Applications
Journal of Number Theory
Journal of Parallel and Distributed Computing
Journal of Phonetics
Journal of Research in Personality
Journal of Solid State Chemistry

Journal of Sound and Vibration
Journal of Structural Biology
Journal of Surgical Research
Journal of Symbolic Computation
Journal of the Japanese and International Economies
Journal of Theoretical Biology
Journal of Urban Economics
Journal of Visual Communication and Image Representation
Journal of Visual Languages and Computing
Journal of Vocational Behavior
Learning and Motivation
Lichenologist (The)
Management Accounting Research
Mechanical Systems and Signal Processing
Metabolic Engineering
Methods: A Companion to Methods in Enzymology
Microbial Pathogenesis
Microvascular Research
Molecular and Cellular Neuroscience
Molecular and Cellular Probes
Molecular Cell Biology Research Communications
Molecular Genetics and Metabolism
Molecular Phylogenetics and Evolution
Molecular Therapy
Neurobiology of Disease
Neurobiology of Learning and Memory
NeuroImage
Nitric Oxide: Biology and Chemistry
Nuclear Data Sheets
Optical Fiber Technology: Materials, Devices, and Systems
Organizational Behavior and Human Decision Processes
Pesticide Biochemistry and Physiology
Pharmacological Research
Physiological and Molecular Plant Pathology
Plasmid
Preventive Medicine
Protein Expression and Purification
Pulmonary Pharmacology and Therapeutics
Quaternary Research
Real-Time Imaging
Regulatory Toxicology and Pharmacology

Religion
Research in Economics/Ricerche Economiche
Review of Economic Dynamics
Seminars in Cancer Biology
Seminars in Cell and Developmental Biology
Seminars in Cell Biology
Seminars in Immunology
Seminars in the Neurosciences
Seminars in Virology
Social Science Research
Superlattices and Microstructures
Theoretical Population Biology
Toxicology and Applied Pharmacology
Tubercle and Lung Disease
Virology
Zoological Journal of the Linnean Society

Appendix B. Institute of Physics Titles Licensed for TORPEDO *Ultra*

Classical and Quantum Gravity
Combustion Theory and Modeling
European journal of Physics
High Performance Polymers
Inverse Problems
Journal of Micromechanics and Microengineering
Journal of Optics A: Pure and Applied Optics
Journal of Optics B: Quantum and Semiclassical Optics
Journal of Physics A: Mathematical and General
Journal of Physics B: Atomic, Molecular and optical Physics
Journal of Physics: Condensed Matter
Journal of Physics D: Applied Physics
Journal of Physics G: Nuclear and Particle Physics
Journal of Radiological Protection
Measurement Science and Technology
Modelling and Simulation in Materials Science and Engineering
Nanotechnology
Network
Nonlinearity
Physics Education
Physics in Medicine and Biology
Physiological Measurement
Plasma Phsyics and Controlled Fusion
Plasma sources Science and Technology
Public Understanding of Science
Reports on Progress in Physics
Semiconductor Science and Technology
Smart materials and Structures
Superconductor Science and Technology
Waves in Random Media

Appendix C. Kluwer Titles Licensed for TORPEDO *Ultra*

Acta Applicandae MathematicaeActa Biotheoretica
Acta Biotheoretica
Acta Juridica Hungarica
Acta Linguistica Hungarica
Acta Mathematica Hungarica
Adsorption
Advanced Performance Materials (?)
Advances in Contraception
Advances in Health Science Education
Aerobiologica
Agriculture and Human Values
Agroforestry Systems
Air and Space Law
Algebras and Representation Theory
Analog Integrated Circuits and Signal Processing
Alanysis Mathematica
Angiogenesis (incorporating Angiogenesis Research)
Annals of Global Analysis and Geometry
Annals of Oncology
Annals of the Institute of Statistical Mathematics
Antonie van Leeuwenhoek
Apoptosis
Applied Categorical Structures
Applied Composite Materials
Applied Intelligence
Aquaculture International
Aquarium Science and Conservation
Aquatic Ecology
Aquatic Geochemistry
Arab Law Quarterly
Arbitration International
Archival Science
Archives and Museum Informatics
Archives of Suicide Research (?)
Argumentation
Art, Antiquity and Law
Artificial Intelligence and Law
Artificial Intelligence Review
Asia Pacific Journal of Environmental Law

Asia Pacific Journal on Human Rights and the Law
Asia Pacific Law Review
Asia-Pacific Financial Markets
Astrophysics and Space Science
Automated Software Engineering
Autonomous Agents and Multi-Agent Systems
Autonomous Robots
BioControl
Biodegredation
Biodiversity and Conservation
Biogeochemistry
Biologia Plantarum
Biological Invasions
Biology and Philosophy
Biomedical Microdevices
Biometals
Bioseparation
Biotechnology Letters
Biotechnology Techniques (?)
Biotherapy (?)
Boundary-Layer Meteorology
Breast Cancer Research and Treatment
Brain and Mind
BT Technology Journal
Business and Law
Cancer and Metastasis Reviews
Cancer Causes and Control
Cardiac Electrophysiology Review
Cardiovascular Drugs and Therapy
Celestial Mechanics and Dynamical Astronomy
Cell Biology and Toxicology
Cellulose
CEMS Business Review (?)
Chromosome Research
Climatic Change
Clinical and Experimental Metastasis
Common Market Law Review
Compositio Mathematica
Computational and Mathematical Organization Theory
Computational Economics
Computational Optimization and Applications

Computer Supported Cooperative Work
Computers and the Humanities
Conservative Genetics
Constitutional Political Economy
Constraints
Continental Philosophy Review
Crime, Law and Social Change
Criminal Law Forum
Culture, Medicine and Psychiatry
Cytotechnology
Data Mining and Knowledge Discovery
Design Automation for Embedded Systems
Designs, Codes and Cryptography
Dialectical Anthropology
Discrete Event Dynamic Systems
Distributed and Parallel Databases
Documenta Ophthalmologica
Dynamics and Control
Earth, Moon, and Planets
Economics of Planning
Economist, De
Ecotoxicology
EDI Law Review
Education and Information Technologies
Educational Studies in Mathematics
Empirica
Empirical Software Engineering
Entomologia Experimentalis et Applicata
Environment, Development and Sustainability
Environmental and Ecological Statistics
Environmental and Resource Economics
Environmental Biology of Fishes
Environmental Geochemistry and Health
Environmental Monitoring and Assessment
Environmentalist
Erkenntnis
Ethical Theory and Moral Practice
Ethics and Information Technology
Euphytica
European Business Law Review
European Environmental Law Review

European Finance Review
European Financial Services Law
European Foreign Affairs Review
European Journal for Education Law and Policy
European Journal of Crime, Criminal Law and Criminal Justice
European Journal of Epidemiology
European Journal of Health Law
European Journal of Law and Economics
European Journal of Law Reform
European Journal of Migration and Law
European Journal of Plant Pathology
European Journal of Political Research
European Journal of Population
European Journal of Social Security
European Journal on Criminal Policy and Research
European Public Law
European Review of Private Law
Evolutionary Ecology
Experimental and Applied Acarology
Experimental Astronomy
Experimental Economics
Expert Evidence
Extremes
Familial Cancer
Feminist Legal Studies
Fish Physiology and Biochemistry
Flow, Turbulence and Combustion
Formal Methods in System Design
Foundations of Chemistry
Foundations of Science
Genetic Programming and Evolvable Machines
Genetic Resources and Crop Evolution
Genetica
GENEVA Papers on Risk and Insurance Throry
GeoInformatica
GeoJournal
Geologie en Mijnbouw (?)
Geometrae Dedicata
Geotechnical and Geological Engineering
Geriatric Nephrology and Urology (?)
Glycoconjugate Journal

Grammers
Group Decision and Negotiation
Health Care Analysis
Health Services and Outcomes Research Methodology
Heart Failure Reviews
HEC Forum
Higher Education
Higher Order and Symbolic Computation
Histochemical Journal
Human Rights Digest
Human Studies
Husserl Studies
Hydrobiologia
IIE Transactions
Indo-Iranian Journal
Information Retrieval
Information Systems Frontiers
Instructional Science
Integrated Pest Management Reviews
Interchange
Interface Science
International and Comparative Corporate Law Journal
International Childrens Rights Monitor
International Corporate Law Bulletin
International Insurance Law Journal
International Journal for the Advancement of Counselling
International Journal for the Philosophy of Religion
International Journal for the Semiotics of Law
International Journal of Cardiac Imaging
International Journal of Comparative Labour Law and Industrial Relations
International Journal of Children's Rights
International Journal of Computer Vision
International Journal of Computers for Mathematical Learning
International Journal of Cosmetic Science
International Journal of Flexible Manufacturing Systems
International Journal of Fracture
International Journal of Franchising and Distribution Law
International Journal of Marine and Coastal Law
International Journal of Salt Lake Research
International Journal of Speech Technology
International Journal of Technology and Design Education

International Journal of Value-Based Management
International Journal on Minority and Group Rights
International Law FORUM du droit international
International Negotiation
International Ophthalmology
International Peacekeeping
International Politics
International Review of Education
International Tax and Public Finance
International Urology and Nephrology
Intertax
Investigational New Drugs
Irrigation and Drainage Systems
Jewish History
Journal for General Philosophy of Science
Journal of Agricultural and Environmental Ethics
Journal of Algebraic Combinatorics
Journal of Applied Electrochemistry
Journal of Applied Phychology
Journal of Aquatic Ecosystem Stress and Recovery
Journal of Atmospheric Chemistry
Journal of Automated Reasoning
Journal of Bioeconomics
Journal of Biological Physics
Journal of Biomolecular NMR
Journal of Business Ethics
Journal of Clinical Monitoring and Computing
Journal of Combinatorial Optimization
Journal of Comparative German Linguistics
Journal of Comparative Policy Analysis
Journal of Computational Neuroscience
Journal of Computer-Aided Materials Design
Journal of Computer-Aided Molecular Design
Journal of Consumer Policy
Journal of Cross-Cultural Gerontology
Journal of Cultural Economics
Journal of East-Asian Linguistics
Journal of Economic Growth
Journal of Educational Change
Journal of Elasticity
Journal of Electroceramics

Journal of Electronic Testing
Journal of Engineering Mathematics
Journal of Ethics
Journal of Financial Services Research
Journal of Global Optimization
Journal of Happiness Studies
Journal of Heuristics
Journal of Inclusion Phenomena and Molecular Recognition Chemistry
Journal of Indian Philosophy
Journal of Inherited Metabolic Disease
Journal of Insect Conservation
Journal of Intelligent and Robotic Systems
Journal of Intelligent Information Systems
Journal of Intelligent Manufacturing
Journal of International Arbitration
Journal of International Wildlife Law and Policy
Journal of Interventional Cardiac Electrophysiology
Journal of Logic, Language and Information
Journal of Management and Governace
Journal of Market-Focused Management
Journal of Materials Science
Journal of Materials Science Letters
Journal of Materials Science: Materials in Electronics
Journal of Materials Science: Materials in Medicine
Journal of Mathematical Imaging and Vision
Journal of Mathematics Teacher Education
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Leiden Journal of International Law

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Liverpool Law Review

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Meccanica

Mechanics of Time-Dependent Materials

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Methodology and Computing in Applied Probability

Methods in Cell Science

Minds and Machines

Minerva

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MOCT-MOST: Economic Policy in Transitional Economics
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Molecular Biology Reports
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Natural Language Semantics
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Netherlands International Law Review
Netherlands Quarterly of Human Rights
Neural Processing Letters
New Forests
Nonlinear Dynamics
Nordic Journal of International Law
Notorius International
Nutrient Cycling in Agroecosystems
Open Economics Review
Open Systems and Information Dynamics
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Optimization and Engineering
Order
Origins of Life and Evolution of the Biosphere
Periodica Mathematica Hungarica
Perspectives in Drug Discovery and Design
Pharmacy World and Science
Philosophical Studies
Photonic Network Communication
Photosynthesis Research
Photosynthetica
Pituitary
Plant and Soil
Plant Cell, Tissue and Organ Culture
Plant Ecology

Plant Foods for Human Nutrition

Plant Growth Regulation

Plant Molecular Biology

Plant Molecular Biology Reporter

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Potential Analysis

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Ramanujan Journal

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Review of Accounting Studies

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Teaching Business Ethics
Tertiary Education and Management
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Theory and Decision
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Topoi
Transgenic Research
Transition Metals Chemistry
Transport in Porous Media
Transportation
Tropical Animal Health and Production
Uniform Law Review/Revue de droit uniforme
Urban Ecosystems
User Modeling and User-Adapted Interaction
Veterinary Research Communications
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Water Quality and Ecosystem Modeling
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Wetlands Ecology and Management
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World Competition
World Journal of Microbiology and Biotechnology
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Antennas and Propagation Magazine, IEEE
Applied Superconductivity, IEEE Transactions on
ASSP Magazine
Automatic Control, IEEE Transactions on
Biomedical Engineering, IEEE Transactions on
Biomedical Information Technology, IEEE Transactions on
Broadcasting, IEEE Transactions on
Circuits and Devices Magazine, IEEE
Circuits and Systems
Circuits and Systems for Video Technology, IEEE Transactions on
Circuits and Systems Part 1, IEEE Transactions on
Circuits and Systems Part 2, IEEE Transactions on
Communications, IEEE Transactions on
Communications Letters, IEEE
Communications Magazine, IEEE
Components and Packaging Technologies, IEEE Transactions on
Components, Hybrids and Manufacturing Technology, IEEE Transactions on
Components, Packaging and Manufacturing Technology, Part A
Components, Packaging and Manufacturing Technology, Part B
Components, Packaging and Manufacturing Technology, Part C
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Computer-Aided Design of Integrated Circuits and Systems, IEEE Transactions on
Computer Applications in Power, IEEE
Computer Graphics and Applications, IEEE
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Consumer Electronics, IEEE Transactions on
Control Systems Magazine, IEEE
Control Systems Technology, IEEE Transactions on
Design & Test of Computers Magazine, IEEE
Dielectrics and Electrical Insulation, IEEE Transactions on
Education, IEEE Transactions on
Electrical Insulation, IEEE Transactions on
Electrical Insulation Magazine
Electromagnetic Compatibility, IEEE Transactions on

Electron Device Letters
Electron Device Letters, IEEE Transactions on
Electron Devices, IEEE Transactions on
Electronics Packaging Manufacturing, IEEE Transactions on
Energy Conversion, IEEE Transactions on
Engineering in Medicine and Biology Magazine
Engineering Management, IEEE Transactions on
Engineering Management Review
Evolutionary Computation, IEEE Transactions on
Fuzzy Systems
Geoscience and Remote Sensing, IEEE Transactions on
History of Computing, IEEE Annals of the
IEEE LCS: The Magazine of Lightwave Communication Systems
IEEE LTS: The Magazine of Lightwave Telecommunication Systems
Image Processing, IEEE Transaction on
Industrial Electronics, IEEE Transactions on
Industry Applications
Industry Applications, IEEE Transactions on
Information Technology in Biomedicine, IEEE Transactions on
Information Theory, IEEE Transactions on
Instrumentation and Measurement Magazine
Instrumentation and Measurement, IEEE Transactions on
Intelligent Systems and their Applications, IEEE Expert Magazine
Internet Computing Magazine, IEEE
IT Professional
Knowledge and Data Engineering, IEEE Transactions on
Lightwave Technology, Journal of
Magnetics, IEEE Transactions on
Mechatronics, IEEE/ASME Transactions on
Medical Imaging, IEEE Transactions on
Medicine and Biology Magazine, IEEE Engineering in
Microelectromechanical Systems, Journal of
Micro Magazine, IEEE
Microwave and Guided Wave Letters, IEEE
Microwave Theory and Techniques, IEEE Transactions on
MultiMedia, IEEE Transactions on
MultiMedia Magazine
Networking, IEEE/ACM Transactions on
Network Magazine of Global Information Exchange
Neural Networks, IEEE Transactions on
Nuclear Science, IEEE Transactions on
Oceanic Engineering, Journal of

Parallel and Distributed Systems, IEEE Transactions on
Parallel and Distributed Technology Systems - Applications
Pattern Analysis and Machine Intelligence, IEEE Transactions on
Personal Communications Magazine, IEEE
Photonics Technology Letters, IEEE
Plasma Science, IEEE Transactions on Potentials
Power Delivery, IEEE Transactions
Power Electronics, IEEE Transactions on
Power Engineering Review
Power Systems, IEEE Transactions on
Proceedings of the IEEE
Professional Communications, IEEE Transactions on
Quantum Electronics, IEEE Transactions on
Rehabilitation Engineering, IEEE Transactions on
Reliability, IEEE Transactions on
Robotics and Automation, IEEE Transactions on
Robotics and Automation Magazine, IEEE
Selected Areas in Communications, IEEE Journal on
Selected Topics in Quantum Electronics, IEEE Journal on
Semiconductor Manufacturing, IEEE Transactions on
Signal Processing, IEEE Transactions on
Signal Processing Letters
Signal Processing Magazine
Software Engineering, IEEE Transactions on
Software Magazine, IEEE
Solid State Circuits, IEEE Journal of
Spectrum, IEEE
Speech and Audio Processing, IEEE Transactions on
Systems, Man and Cybernetics, Part A, IEEE Transactions on
Systems, Man and Cybernetics, Part B, IEEE Transactions on
Systems, Man and Cybernetics, Part C, IEEE Transactions on
Technology and Society Magazine, IEEE
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